Ref #	Hits	Search Query	DBs	Default Operator	Plurals.	Time Stamp
S1	419	(YOMOGIDA.in. or HIRATA.in. or NAKANO. in.) and (exhaust near3 gas) and (engine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 08:41
S2	51	(YOMOGIDA.in. or HIRATA.in. or NAKANO. in.) and (exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:44
S3	8	(YOMOGIDA.in. or HIRATA.in. or NAKANO. in.) and (exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:46
S4	1696	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:46
S5	1229	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 tim$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:46
S6	358	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:46

S7	204	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:50
S8	170	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:49
S9	161	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque or load)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:50
S10	120	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:50
S11	103	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque or load) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:31

S12	16	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque near4 compensat$4) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 14:00
S13	18	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque near4 compensat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 13:56
S14	17	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 with (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque near4 compensat$4) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 14:00
S15	15	(exhaust near3 gas) and (engine) and (fuel near4 (amount near4 tim$4)) and (retard$4 with (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque near4 compensat$4) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 14:00

S16	23	(exhaust near3 gas) and (engine) and (fuel near4 (amount or tim$4)) and (retard$4 with (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque near4 compensat$4) and (60/272-324.ccls.)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2005/04/21 14:01
S17	72	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque) and (60/272-324.ccls.)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2005/04/21 14:09
S18	112	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2005/04/21 14:09
S19	43	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque) and ((increas$4 or decreas$4 or rais$4) near2 torque)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2005/04/21 14:20

S20	11	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque) and (control$4 near2 torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 14:21
S21	19	("5655365" | "5826425" | "5826427" | "5839275" | "5845492" | "5956942" | "5967113" | "5974788" | "5996338" | "6041591" | "6058700" | "6134884" | "6141960" | "6178743" | "6195987" | "6199374" | "6216450" | "6378297" | "6536209").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:27
S22	0	("6865880").URPN.	USPAT	OR	ON	2005/04/21 14:27
S23	5	("6044642" | "6240724" | "6449946" | "6560960" | "6574961").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:27
S24	0	("6725649").URPN.	USPAT	OR	ON	2005/04/21 14:27
S25	8	("4835963" | "4835964" | "5195316" | "5287698" | "5319930" | "5716586" | "6405528" | "6438948").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:27
S26	0	("6851258").URPN.	USPAT	OR	ON	2005/04/21 14:28
S27	6	("5850735" | "5974791" | "6367246" | "6405528" | "6490857" | "6497095").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:28
S28	0	("6698192").URPN.	USPAT	OR	ON	2005/04/21 14:28
S29	10	("5402641" | "5423181" | "5606855" | "5784880" | "5839275" | "5902210" | "5941211" | "6021638" | "6148611" | "6389807").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:28

S30	3	("6560960").URPN.	USPAT	OR	ON	2005/04/21 14:28
S31	11	("4686827" | "5207058" | "5826425" | "5839275" | "5910096" | "6021767" | "6044642" | "6131388" | "6141960" | "6173571" | "6240723").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:28
S32	17	("6378297").URPN.	USPAT	OR	ON	2005/04/21 14:28
S33	5	("5482017" | "5642705" | "6044642" | "6116208" | "6141960").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:29
S34	6	("6345499").URPN.	USPAT	OR	ON	2005/04/21 14:29
S35	5	("5482017" | "5642705" | "6044642" | "6116208" | "6141960").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:29
S36	4	("6330796").URPN.	USPAT	OR	ON	2005/04/21 14:29
S37	11	("5357928" | "5642705" | "5647204" | "5661971" | "5727384" | "5729971" | "5806482" | "5910096" | "5975046" | "6044642" | "6141960").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 14:29
S38	6	("6318074").URPN.	USPAT	OR	ON	2005/04/21 14:29
S39	0	("2004/0103647").URPN.	USPAT	OR	ON	2005/04/21 14:30
S40	86	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque or load) and ((increas$4 or decreas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:32

S41	87	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near4 temperature) and (torque or load) and ((increas$4 or decreas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:32
S42	96	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near4 temperature) and (torque or load) and ((increas$4 or decreas$4 or rais$4) near4 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:32
S43	156	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near4 temperature) and (torque or load) and ((increas$4 or decreas$4 or rais$4) near4 fuel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:31
S44	85	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque or load) and ((increas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:33

S45	82	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (torque or load) and ((increas$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:32
S46	38	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (control$4 near4 (torque or load)) and ((increas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:41
S47	11	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (compens$4 near4 (torque or load)) and ((increas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:33
S48	20	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (control$4 near4 (torque)) and ((increas$4 or rais$4) near2 fuel) and (60/272-324. ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:41

S49	11	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (compens$4 near4 (torque)) and ((increas$4 or rais$4) near2 fuel) and (60/272-324.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:41
S50	12	(exhaust near3 gas) and (engine) and (fuel near4 (amount and tim$4)) and (retard$4 near4 (inject$4 near4 tim$4)) and (exhaust near4 temperature) and ((increas$4 or decreas$4 or rais$4) near2 temperature) and (compens$4 near4 (torque)) and ((increas$4 or rais$4) near2 fuel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 15:42
S51	1	"5255512"	JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 08:42
S52	2	"6698192"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 08:46
S53	2	"6865880"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 08:47

S54	2	"20010027644"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 08:47

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L1: Entry 1 of 1   File: DWPI   Feb 8, 2005

DERWENT-ACC-NO: 2004-052724
DERWENT-WEEK: 200511
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TITLE: Regeneration device, for exhaust gas filter of diesel engine, has controller
to control regeneration of filter at several phases using exhaust gas and oxygen
concentration regulator

INVENTOR: KAWASHIWA, J; OTAKE, M ; TABATA, M ; TSUTSUMOTO, N ; KAWASHIMA, J

PRIORITY-DATA: 2002JP-0189206 (June 28, 2002)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	US 6851258 B2	February 8, 2005		000	F01N003/02
☐	US 20040000139 A1	January 1, 2004		030	F01N005/04
☐	EP 1375877 A2	January 2, 2004	E	000	F02D041/02
☐	JP 2004028045 A	January 29, 2004		028	F02D041/38

INT-CL (IPC): F01 N 3/00; F01 N 3/02; F01 N 5/04; F02 B 37/00; F02 B 37/22; F02 D
21/08; F02 D 23/00; F02 D 41/02; F02 D 41/04; F02 D 41/38; F02 M 25/07

ABSTRACTED-PUB-NO: US20040000139A
BASIC-ABSTRACT:

NOVELTY - A controller (31) raises the temperature of the filter (41) to the
combustion temperature of particulates by controlling an exhaust gas temperature
regulator, in the primary phase of filter regeneration. In a secondary phase, the
oxygen concentration of exhaust gas is held at a low level, while the filter
temperature is maintained by controlling an oxygen concentration regulator. In a
tertiary phase, complete combustion of the trapped particulate is performed.

DETAILED DESCRIPTION -. In the tertiary phase, the controller controls the oxygen
concentration regulator, so that the oxygen concentration of exhaust gas is held at
a predetermined high level while filter temperature is maintained to complete the
combustion of trapped particulate matter.

USE - Used for the regeneration of a particulate filter for filtering exhaust gas
from diesel engines.

ADVANTAGE - The device prevents the residual particulate matter from remaining in
the filter after completion of filter regeneration without any damage to the filter
due to the use of a controller and an oxygen concentration and temperature

regulator.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic diagram of the diesel engine.

Diesel engine 1

Fuel injection nozzle 17

Controller 31

Crank angle sensor 33

Water temperature sensor 34

Air flow meter 35

Temperature sensors 38, 37

Filter 41